

46 BC

Caesar asked the astronomer SOSIGENES to review the Cal and suggested ways of improving it. Caesar ordered the Romans to disregard the moon in calculating their calendars. He divided the year into 12 mos of 31 and 30 days, except Feb. which had only 29 days. Every 4th year it would have 30 days. HE MOVED THE BEGINNING OF THE YR from

MAR 1 to JAN 1.

To realign the Cal with the seasons he ruled that the year we call 46 B.C. have 445 days, the Romans called this the year of Confusion.

The Romans renamed QUINTILIS to honor Julius Caesar, giving us July.

475C - 46 BC.

Julius Caesar's Julian Calendar
introduced (708 A. U. C.)

46BC was 445 day long.

46 BC

The priests forgot or purposely neglected
to insert the intercalary month,
(MERCEONIS) and in 46 BC the difference
between the solar and lunar years
amounted to 90 days (67 and a
Mercedonius of 23 days.).

Julius Caesar insisted 67 days between Nov.
and Dec. so that the number of days in
46 BC was 445 ($355 + 23 + 67$). Then

with the mathematician Sosigenes Caesar started the Julian Cal. Jan 1. 45 BC. The new year was decreed to be on Jan 1., the day on which the Consuls assumed office. To bring the 355-day yr into line with the Solar yr Caesar added 2 days to Jan., Aug. and Dec. and 1 day to each of April, June, Sept and Nov. Feb normally having 28. Since ordinary yr would be followed by an leap yr (366 days) in which Feb 29 was counted twice

46BC

To correct error of spring
equinox in June, Caesar
made 46 BC 445 days long
(The year of Confusion)

46 B.C.

The Julian Cal. was introduced
into Rome in 46BC. It was the most
widely used one in the Western
World until the Gregorian Cal.
replaced it.

46BC

SULIAN CAL.

The republican Cal. became hopelessly confused by the end of the republic both because of failure on the part of the priests and measure of political maneuverers. The Cal. was interfered with so as, for ex. to reduce or extend the term of office of a particular magistrate. Julius Caesar undertook the reform. By 46BC the Cal had become so removed out of step with the seasons that the calendar equinox had become separated from the astronomical equinox by 3 months. Winter was carried

back into the autumn months and
culminates into summer. Caesar as pontifex
maximus and dictator and advised by the
Alexandrian astronomer SOSIGENES, began his
reform in 46 BC by intercalating 67 days
between the months of Nov. and DEC, thus
making that year 445 day in length. By this
action the civil and astronomical years were
brought into line. The lunar Cal. was abolished
and it was decreed that regulation should be on
the basis of a solar Cal. Sosigenes also suggested
that the length of the year should be $365 \frac{1}{4}$
days. It was decided that in a 4 year ④

(A) (B)

cycle the 1st three yrs should have 365
and the 4th have 366 days. This new
Cal. was adopted in 45 BC. Caesar also decreed
that the year should begin on Jan. 1.

There has been a tradition that he ordered odd
numbered months i.e. Jan, MAR, MAY, JULY, SEP
AND NOV to have 31 days; APR, JUN, AUG, OCT, Dec
30 days; and Feb either 29 or 30 (in the 4th yr). The
grammarian Ambrosius Theodosius MACROBIUS
(4th-5th cen A.D.) in his "SATURNALIA" flatly
contradicts it. (Evidence has not been found)

1st half 46 BC

Duncan; Cal

Caesar decreed the changes to the Calendar.

The old lunar Calendar was running several months fast as against the solar year.

The College of priests sometimes increased the length of the year to keep Consuls and senators, they served in office longer, or decreased the year.

to shorten nicks' times

46BC

From *Twins of the Caesar* by SUE TORIUS
then (46BC) turning his attention to
the reorganization of the state, he reformed
the calendar, which the pontiffs had long
since so disordered, by neglecting
to order the necessary intercalations,
that the harvest festivals did not come
in summer nor those of the vintage
in the autumn. He adjusted the

DOMINICAL LETTER

EASTER

EPACT

ERA

GOLDEN NUMBER

LUNAR CYCLE

METONIC CYCLE

SOLAR CYCLE

TIME

46 BC

Easy Box

To assist farmers, Caesar issued an Almanac showing in which dates of his new Cal. various seasonal astronomical phenomena would occur.

46Bc

Isay Butt

Had 2 intercalations

1st was customary intercalation
of Julian Republican Cal. date
that year, the insertion of 23 DAYS
following Feb. 23.

2nd intercalation - inserted 2
additional months between end
of Nov. and beginning of Dec.
this was an addition of 63 days

These caused the beginning 7845 BC
the new yr to begin Jan. 1 of the
Julian Cal.

Sosigenes also anticipated a
day between 2/23 and 2/24 every
4th yr. This day was known as pronaum
tempus

46BC

42 1/3 confusion

Caesar added:

23 days of an intercalary month
after Februaries

Added month of 34 days

Added month of 33 days

both between Nov. & Dec.
so the total was 445 days